

**UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE**

***MLRA REGION 11
Indianapolis, Indiana 46278***

**THIRD AMENDMENT
TO THE
APRIL 1985 CLASSIFICATION AND CORRELATION
OF THE SOILS OF
KOSCIUSKO COUNTY, INDIANA**

JUNE 2004

This amendment results from digitizing the Kosciusko County Soil Survey, the update of the NASIS database, and conforming to the Keys to Soil Taxonomy, 9th Edition, 2003.

AMENDMENT NO. 3

Page 8 - Addition

-Map Unit Symbol and Name: W - Water

Add the map unit symbol name "W - Water" for water areas less than 40 acres in size and water areas more than 40 acres in size.

Page 11 – Replace the 37A dated 4/84, with the attached Indiana Official 37A for Compilation, Digitizing, and DMF, Revised June 30, 2004.

Only the following standard soil survey features will be shown on the legend and placed on the digitized soil maps:

<u>Feature</u>	<u>Name</u>	<u>Description</u>
DEP	Depression, closed	A shallow, saucer-shaped area that is slightly lower on the landscape than the surrounding area and is without a natural outlet for surface drainage. Typically 0.2 to 2 acres.
ERO	Severely eroded spot	An area where on the average 75 percent or more of the original surface layer has been lost because of accelerated erosion. Not used in map units that are named severely eroded, very severely eroded, or gullied. Typically 0.2 to 2 acres.
GPI	Gravel pit	An open excavation from which soil and underlying material have been removed and used, without crushing, as a source of sand or gravel. Typically 0.2 to 2 acres.
GUL	Gully	A small channel with steep sides cut by running water through which water ordinarily runs only after a rain, or after ice or snow melts. It generally is an obstacle to wheeled vehicles and is too deep to be obliterated by ordinary tillage.
MAR	Marsh or swamp	A water saturated, very poorly drained area, intermittently or permanently covered by water. Sedges, cattails, and rushes dominate marsh areas. Trees or shrubs dominate swamps. Typically 0.2 to 2 acres.

<u>Feature</u>	<u>Name</u>	<u>Description</u>
SAN	Sandy spot	A spot where the surface layer is loamy fine sand or coarser in areas where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically 0.2 to 2 acres.
SLP	Short, steep slope	Narrow soil area that has slopes that are at least two slope classes steeper than the slope class of the surrounding map unit.
WET	Wet spot	A somewhat poorly drained to very poorly drained area that is at least two drainage classes wetter than the named soils in the surrounding map unit. Typically 0.2 to 2 acres.

Only the following ad hoc features will be shown on the legend and placed on the digitized soil maps:

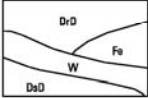



































































<u>Label</u>	<u>Symbol ID</u>	<u>Name</u>	<u>Description</u>
FES	22	Iron accumulation	An accumulation of iron in the form of nodules, concretions, or soft masses on the surface or near the surface of soils. Typically 0.2 to 2 acres.
HIL	26	Knob or hill	Knob or hill. Typically less than 3 acres.
SID	28	Small inadequately drained area	Small inadequately drained area. Typically 0.25 to 3 acres.
MUC	30	Muck spot	An area within a poorly drained or very poorly drained soil that has a histic epipedon or where the surface is organic. The spot symbol is used only in map units consisting of mineral soil. Typically 0.2 to 2 acres.
MRL	35	Marl spot	An area where the mineral or muck surface has been eroded or removed, exposing marl at the surface. Typically 0.2 to 2 acres.
SAM	38	Small dam	Small, earthen dam. Typically 0.2 to 2 acres.
UWT	44	Unclassified water	Small, natural or man-made lake, pond, or pit that contains water, of an unspecified nature, most of the year. Typically 0.2 to 2 acres.

Soil Survey Area: _____

State: Indiana

FEATURE AND SYMBOL LEGEND FOR SOIL SURVEY

June 2004
Date: _____

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
SOIL SURVEY FEATURES		CULTURAL FEATURES (Optional)		HYDROGRAPHIC FEATURES (Optional)	
SOIL DELINEATIONS AND LABELS		BOUNDARIES		Drainage end (Indicates direction of flow)	
		National, state or province		Unclassified stream	
STANDARD LANDFORM AND MISCELLANEOUS SURFACE FEATURES		County or parish			
Bedrock escarpment		Minor civil division			
Nonbedrock escarpment		Reservation (Military)			
Valley		Land grant (Optional)			
Levee		Field sheet matchline and neatline			
Short steep slope		Public Land Survey System Section Corner Tics			
Blowout					
Borrow pit		GEOGRAPHIC COORDINATE TICK			
Clay spot					
Closed depression		ROAD EMBLEMS			
Gravel pit		Interstate			
Gravelly spot		Federal			
Landfill		State			
Marsh or swamp		LOCATED OBJECTS			
Mine or quarry		Airport (Label only)		Davis Airport or Airstrip	
Rock outcrop					
Sandy spot					
Severely eroded spot					
Sinkhole					
Slide or slip					
Spoil area					
Stony spot					
Very stony spot					
Wet spot					
AD HOC FEATURES (Describe on back)					
LABEL	SYMBOL ID	SYMBOL	LABEL	SYMBOL ID	SYMBOL
DCS	1		CRO	23	
DKS	2		WTA	24	
GVW	3		CGW	25	
VWS	4		DLI	26	
EAS	5		DLI	27	
MAS	6		DLI	28	
SAS	7		DLI	29	
CAF	8		DLI	30	
CAL	9		DLI	31	
SLR	10		DLI	32	
DUM	11		DLI	33	
BRV	12		DLI	34	
BRW	13		DLI	35	
BRD	14		DLI	36	
OSR	15		DLI	37	
SSR	16		DLI	38	
LBR	17		DLI	39	
WOP	18		VSE	40	
SSR	19		DLI	41	
COB	20		DLI	42	
CNS	21		DLI	43	
FES	22		DLI	44	

Pages 22 & 23-- Replace the Classification of the Soils table with the following, amended per Soil Taxonomy 9th edition:

Kosciusko County, Indiana

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Abscota-----	Mixed, mesic Oxyaquic Udipsamments
Aubbeenaubbee-----	Fine-loamy, mixed, active, mesic Aeris Epiaqualfs
*Barry-----	Fine-loamy, mixed, superactive, mesic Typic Endoaquolls
Blount-----	Fine, illitic, mesic Aeris Epiaqualfs
*Boyer-----	Coarse-loamy, mixed, superactive, mesic Typic Hapludalfs
Brady-----	Coarse-loamy, mixed, active, mesic Aquollic Hapludalfs
Bronson-----	Coarse-loamy, mixed, active, mesic Aquic Hapludalfs
*Carmi-----	Coarse-loamy, mixed, superactive, mesic Typic Hapludolls
Coloma-----	Mixed, mesic Lamellic Udipsamments
Crosier-----	Fine-loamy, mixed, active, mesic Aeris Epiaqualfs
Del Rey-----	Fine, illitic, mesic Aeris Epiaqualfs
Edwards-----	Marly, euic, mesic Limnic Haplosaprists
Gilford-----	Coarse-loamy, mixed, superactive, mesic Typic Endoaquolls
Glynwood-----	Fine, illitic, mesic Aquic Hapludalfs
Gravelton-----	Sandy, mixed, mesic Fluvaquentic Endoaquolls
Griswold-----	Fine-loamy, mixed, superactive, mesic Typic Argiudolls
Homer-----	Fine-loamy over sandy or sandy-skeletal, mixed, active, mesic Aeris Endoaqualfs
Houghton-----	Euic, mesic Typic Haplosaprists
*Kosciusko-----	Fine-loamy over sandy or sandy-skeletal, mixed, active, mesic Typic Hapludalfs
Martinsville-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Metea-----	Loamy, mixed, active, mesic Arenic Hapludalfs
Miami-----	Fine-loamy, mixed, active, mesic Oxyaquic Hapludalfs
Morley-----	Fine, illitic, mesic Oxyaquic Hapludalfs
Ormas-----	Loamy, mixed, active, mesic Arenic Hapludalfs
Owosso-----	Fine-loamy, mixed, semiactive, mesic Typic Hapludalfs
Palms-----	Loamy, mixed, euic, mesic Terric Haplosaprists
Pewamo-----	Fine, mixed, active, mesic Typic Argiaquolls
Rensselaer-----	Fine-loamy, mixed, superactive, mesic Typic Argiaquolls
Riddles-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Saranac-----	Fine, mixed, active, mesic Fluvaquentic Endoaquolls
Sebawa-----	Fine-loamy over sandy or sandy-skeletal, mixed, superactive, mesic Typic Argiaquolls
Shipshe-----	Loamy-skeletal, mixed, superactive, mesic Typic Argiudolls
Shoals-----	Fine-loamy, mixed, superactive, nonacid, mesic Fluventic Endoaquepts
Toledo-----	Fine, illitic, nonacid, mesic Mollic Endoaquepts
Udorthents, loamy-----	Udorthents
Wallkill-----	Fine-loamy, mixed, superactive, nonacid, mesic Fluvaquentic Humaquepts
Washtenaw-----	Fine-loamy, mixed, active, nonacid, mesic Aeris Fluvaquents
Wawasee-----	Fine-loamy, mixed, active, mesic Typic Hapludalfs
Whitaker-----	Fine-loamy, mixed, active, mesic Aeris Endoaqualfs

KOSCIUSKO COUNTY, INDIANA
AMENDMENT NO. 3

Approval Signatures

TRAVIS NEELY
State Soil Scientist/MLRA Leader

Date

JANE E. HARDISTY
State Conservationist

Date